A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B24B37/00, B24B37/04, G11B5/73, G11B5/84				
		30, 13, 32== 3, = 1		
According to International Patent Classification (IPC) or to both national classification and IPC				
	DS SEARCHED	<u> </u>		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ B24B1/00, B24B37/00, B24B37/04, G11B5/73, G11B5/84				
<u>. </u>				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
	-			
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap		Relevant to claim No.	
X Y .	JP 2002-163817 A (Showa Denk 07 June, 2002 (07.06.02), Par. Nos. [0064] to [0065] & US 2002/0055017 A1	o Kabushiki Kaisha),	1-5,10-12,17 6-9,13-16	
¥	JP 1-115564 A (Sony Corp.), 08 May, 1989 (08.05.89), Page 4, upper right column, line 16 to lower left column, line 18; Fig. 1 (Family: none)			
Y	JP 11-510743 A (Minnesota Mi Manufacturing Co.), 21 September, 1999 (21.09.99) Par. No. [0037]; Fig. 1 & WO 1997/06927 A1	_	7	
L	ner documents are listed in the continuation of Box C.	See patent family annex.		
	d categories of cited documents: nent defining the general state of the art which is not	"I" later document published after the inte priority date and not in conflict with th	mational filing date or eapplication but cited to	
"E" earlier	ered to be of particular relevance document but published on or after the international filing	understand the principle or theory under "X" document of particular relevance; the	criying the invention	
	ent which may throw doubts on priority claim(s) or which is o establish the publication date of another citation or other	considered movel or cannot be consider step when the document is taken alone "Y" document of particular relevance; the		
specia	I reason (as specified) nent referring to an oral disclosure, use, exhibition or other	considered to involve an inventive step combined with one or more other such	when the document is	
means		combination being obvious to a person document member of the same patent if	skilled in the art	
	actual completion of the international search day, 2004 (14.05.04)	Date of mailing of the international seam 01 June, 2004 (01.0		
	nailing address of the ISA/ nnese Patent Office	Authorized officer		
T		Telephone No		



Intermional application No.
PCT/JP03/16673

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	JP 9-16955 A (Kao Corp.), 17 January, 1997 (17.01.97), Par. Nos. [0021] to [0027] (Family: none)			
Y	JP 2000-132829 A (Hoya Corp.), 12 May, 2000 (12.05.00), Par. Nos. [0007] to [0009] & US 6383404 B1	15,16		
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